Test plan

1. Introduction

This document describes all information about approach and methodologies, resources and the testing team that will drive the testing of the Recipe Book. The plan is used to validate the quality of the software.

Recipe book is a mobile application that is a recipe book, allowing the user to register / authorize, change user data, add / change / delete recipes. The recipe contains data: picture of meal, title, ingredients, recipe text, time of preparation, creation and modification dates.

Conditions for testing

This mobile application should satisfy the user's need for activities related to viewing photo galleries (meals), easily create and modify recipes, learn about updates, updates.

2. Test Objectives

Mobile application - Recipes

3. Functions to be tested

Recipe book functions from the user's viewpoint that will be tested:

- Installation testing (install, uninstall, rollback, updates)
- User registration
- Authorization
- Password recovery
- Edit user data
- Add recipe
- Change recipe
- Delete one recipe
- Delete multiple recipes
- Add / delete a photo of a meal
- Exit the program

4. Approach

During application testing, non-functional testing will be performed:

- installation
- Compatibility
- Interruptions
- Performance
- UI
- UX

For integrations testing API and database will be tested.

For functional testing, the following testing techniques will be used:

- Equivalence Partitioning
- Boundary value analysis
- Error guessing
- State Transition diagrams
- Cause / effect

Also exploratory and ad-hoc testing techniques will be used.

5. Pass criteria

All high priority test cases are closed with a pass result. Test coverage has been verified and is sufficient, where the sufficiency criterion is at least 99% of the requirements being covered by the tests.

6. Suspension Criteria and Resumption Requirements

The criterion for interrupting testing is the recording of blocking bugs in the bug-tracking system.

The criterion for continuing testing is the closure of a blocking bug in the bug tracking system.

7. Test Deliverables

Testing will provide specific deliverables during the project: test plan, test scenarios, test cases, requirements traceability matrix.

8. Test tasks

- Writing a test plan
- Writing test scenarios
- Writing test cases and checklists
- Test execution
- Reporting test results

9. Technical requirements

The application will be tested on the following operating systems: Android 10, 11, MIUI, One UI

Approved devices for testing:

- Xiaomi Redmi Note 8 Pro, MIUI Global 12.5.1 Stable, Android 11, 2340x1080
- Samsung Galaxy A20, version One 2.0 UI, Android 10, 720x1560

Testing will also be carried out using emulators on devices:

- Xiaomi Redmi 9
- Samsung Galaxy A50
- Huawei P30 lite
- Google Pixel 3A

10. Schedule

Task	Start date	End date
Test plan	09/26/2021	10/02/2021
Test scenarios	09/27/2021	
Test cases and checklists	09/27/2021	
Test execution	10/10/2021	
Test Summary Report		

11. Risks and Contingencies

Potential risks during testing:

- Lack of personnel resources when testing is to begin
- Lack of required hardware, software, data or tools.

- Changes to the original requirements or designs.
- The number of defects allowed will be increased.
- The scope of the plan is subject to change.